Record Nr.	UNINA9910253990203321
Titolo	Sustainable Ecological Engineering Design [[electronic resource]]: Selected Proceedings from the International Conference of Sustainable Ecological Engineering Design for Society (SEEDS) / / edited by Mohammad Dastbaz, Chris Gorse
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2016
ISBN	3-319-32646-5
Edizione	[1st ed. 2016.]
Descrizione fisica	1 online resource (394 p.)
Disciplina	621.042
Soggetti	Energy efficiency Buildings—Design and construction Building Construction Engineering, Architectural Sustainable development Energy Efficiency Building Construction and Design Sustainable Development
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Part 1. Sustainability and the Policy Landscape The Meaning of Sustainability The Patchwork Politics of Sustainable Communities What Has Posterity Ever Done for Us: An Ethical Framework for UK Climate Change Policy? The Rocky Road of Post-Capitalist Grassroots Experimentation Part 2. Sustainability and Technology An Evaluation of Thermal and Lighting Performance within an ETFE Structure Double Skin Façades for the Sustainable Refurbishment of Nondomestic Buildings: A Life Cycle Environmental Impact Perspective Off the Shelf Solutions to the Retrofit Challenge: Thermal Performance and Comfort African Energy Plus construction – A Case Study of House Rhino Smart Badge for Monitoring Formaldehyde

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Sommario/riassunto	Exposure Concentration Part 3. Survey, Measuring and Modeling A Case Study of the Metrics of Capturing the 'Green' Improvements on a New Office Building Building Surveys to Inform Assessment of Initial Conditions in a Property Prior to Thermal Upgrade A New Experiment and Modeling Work to Jointly Identify the Building Envelope' s Thermal Parameters and a Physical Solar Aperture Part 4. Measuring Quantifying the Effect of Window Opening on the Measured Heat Loss of a Test House A Methodology for Identifying Gaps Between Modeled and Measured Energy Performance in New-Build Social Housing Evaluating Natural Ventilation in Future Climate Scenarios as Part of a Long-Term Non-Domestic Retrofit Strategy for an Educational Facility Part 5. Building and Infrastructure Thermally Modeling Bio-Composites with Respect to an Orientated Internal Structure Strength Related Geotechnical Testing of Lateritic Soil Prior to the Application of Microbially Induced Calcite Precipitation Treatment Part 6. Water Development of Sustainable Drinking Water Quality Solutions for Rural Communities in the Developing World Management of Water Resources in the Amazon Region Part 7. Cities and Neighbourhoods Overcoming Barriers to Making Cities More Sustainable: How Can Short-Term Thinking Help Achieve Long-Term Goals? The Rejuvenation of a Historical Neighbourhood in South Africa Part 8. Comfort, Behaviour and Payback Modelling the Delivery of Residential Thermal Comfort and Energy Savings: Comparing How Occupancy Type Affects the Success of Energy Efficiency Measures Analysing the Technical and Behavioural Shifts of Social Housing Tenants Following the Retrofiting of External Wall Insulation Switch, Don't Save Analyzing the Payback Time of Investments in Building Automation A New Experiment and Modelling Work to Jointly Identify the Building Envelope's Thermal Parameters and a Physical Solar Aperture. This book focuses on the impacts of the built environment, and how to
Sommario/riassunto	This book focuses on the impacts of the built environment, and how to predict and measure the benefits and consequences of changes taking place to address sustainability in the development and building industries. It draws together the best treatments of these subjects from the Leeds Sustainability Institute's inaugural International Conference on Sustainability, Ecology, Engineering, Design for Society (SEEDS). The focus of discussion is on understanding how buildings and spaces are designed and nurtured to obtain optimal outcomes in energy efficiency and environmental impacts. In addition to examining technical issues such as modeling energy performance, emphasis is placed on the health and well-being of occupants. This holistic approach addresses the interdependence of people with the built and natural environments. The book's contents reflect the interdisciplinary and international collaboration critical to assembly of the knowledge required for positive change.